



1. Name of Course:	Machine Operator (Medical Device)		
	7218		
N.C.O. No. for Skills Covered: (Please refer National Classification of Occupations -2004 available on www.dget.nic.in)			
2. Engineering OR Non-engineer	ing: Engineering ajanand Easer Technology Limited		

3. No. of students per batch: 20 trainees

Sector-26,

Gandhinagar-382028

1. Duration in Hours.: 400 Hours

5. Duration in Month: 2 Month

6. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Excluding Sessional)	Minimum Marks required for Passing (Excluding Sessional).	Sessional Marks if any.
Subject-1	Theory	100	100	40%	10%
Subject-2	Practical	300	100	60%	10%
Subject-3					
Subject-4					

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	ITI (Electronics Mechanic/ Fitter/ Assembly Fitter), Science Graduate
Desirable:	Interested in Laser

3. Minimum qualification for Trainer:

Minimum qualification (Essential):	B. E. in Bio Chemistry
Desirable:	Experienced







). Syllabus Committee Member:

SI. No.	Name	Organization	Designation	Technical Qualification	Experience	Signature
1	Dr. Arvind Patel	Sahajanand Laser Technology (SLTL)	Chairman & MD	PhD in Laser Application, BE EC	Above 30 yrs	10820
2	Mr. Ram Ginoya	SLTL	General Manager	M.Sc.Electronics	30 yrs	Menny
3	Mr. Ritesh Mistry	SLTL	Ass. General Manager	BE Mechanical	10 yrs	proton.
4	Mr. Kushal Bhatt	SLTL	Production Supervisor	MSc., PGDCR	4 yrs	Padriche
5	Ms.Preeti Vani	SLTL	Sr.Manager	M.Sc.Blochemistry	14years	=crqeeceh
6	Mr. Mukesh Patel	SLTL	Sr. Manager	B.SC, MLW	13 yrs	Op.
7	Mr. A V Chaudhary	ITI	AAA	Diploma Mechanical	13 yrs	A. Thoust
8	Mr. M M Rathod	ITI	AAA	Diploma EC	13 yrs	miho

10. Terminal Skills of trainee: (Should be well defined and having reference to NCO):

The trainee, after successful completion of training, will have following skills...

- 1. Operating of Welding Machine, Crimping Machine
- 2. Machine Maintenance.
- 3. Monitoring of Clean Room Practices.
- 4. Daily production documentation (ISO 9001:14385)

11. Approximate cost of Tools/ Equipments / Machinery forStarting one batch of the course:

Rupees 100000/-

Reference Year FY 15 -16

12. Area required for practical / Workshop for one batch.

...100...... Sq. Meter







13.	Minimum	Power	connection	required
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.....66..... K.W.

14.1 No of items in Standard list of Machinery:

Page No 4 to 4

Sheet-Attached-

Gas?

14.2 No of items in Standard list of Shop outfit:

Page No 4 +05

Sheet Attached

Mar.

14.3 No of items in Standard list of Trainee Toll-Kit:

Sheet Attached

****** FOR OFFICIAL USE ******

Approved by GCVT in Governing Body meeting on

30-9.2015

Syllabus implemented w.e.f. admission session

Next- session

Revision History

1. Revision No...... Revision Date.

2. Revision No...... Revision Date.

3. Revision No...... Revision Date.









Standard List of Machinery - Equipment / Shop-outfit / or Trainee Toolkit
For Trade of Machine Operator (Medical Device).

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1.	Welding Nozzle	Machinery	01	-	01
2.	Dial Guage	Machinery	01	-	01
3.	Tester	Machinery	01	-	01
4.	Battery charger 6v- 18 v	Machinery	01	_	01
5.	Multimeter	Machinery	01	-	01
6.	Vernier caliper	Machinery	02	-	02
7.	Scale	Machinery	01	-	01
8.	Measure tap	Machinery	01	***	01
9.	Desk top Computer	Machinery	01	01	02
10.	Allen key set	. Shop-outfit	01	-	01
11.	Screw driver set	Shop-outfit	01		01
12.	Pressure monitoring	Shop-outfit	01	-	01
13.	Hand vice	Shop-outfit	01	**	01
14.	Drill Twist (assorted)	Shop-outfit	01	-	01
15.	Power meter	Shop-outfit	01	-	01
16.	Cutter	Shop-outfit	01		01
17.	Dial indicator to read 0.01 mm	Shop-outfit	01	-	01
18.	Circlip pliers Expanding and contracting type 15 cm and 20 cm each	Shop-outfit	01	-	01
19.	Player	Shop-outfit	01	-	01







Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
20.	Battery 12 V	Shop-outfit	01	-	01
21	Tachometer	Shop-outfit	01	-	01
22.	Vernier Caliper 250 or 200 mm inside, outside & depth	Shop-outfit	01	_	01
23.	Bore gauge	Shop-outfit	01	-	01
24.	Dial-puppet	Shop-outfit	01	-	01
25.	Outside Micrometer 0-25 mm, 25-50 mm,	Shop-outfit	01	-	01
26.	Polarizer	·Shop-outfit	01		01
27.	Piston ring filer	Shop-outfit	01	-	01
28.	Adjustable Spanner	Shop-outfit	01	-	01
29.	Surface plate	.Shop-outfit	01	-	01
30.	Black anodize plate	Shop-outfit	01	-	01
32	Tubings for welding				

Mukesh Pates
Sr. Manager
Sahaj anand Laser Technology Gd.







GUJARAT COUNCIL OF VOCATIONAL TRAINING GANDHINAGAR

Name of Syllabus: Machine Operator (Medical Device)

Sector: Mechatronics

Terminal Competency: Able to perform different processing of cardiac stent

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Theory	Practical
 Introduction Laser Fundamentals Laser Types and Operating Principles Laser Applications Basic Introduction of Medical device Clean Room Practices Welding Process Crimping Process 	 Practice Health & Safety – select, use, maintain & store tools, equipments & clothing safely. Identification of Tools, measuring instruments & equipments. Measure any components by using the micrometer & dial gauge. Calibrate machine using Vernier Caliper Laser Safety Introduction to Electronics Circuit Assembly and Analysis Introduction to Laser source with electronics Connection Laser Beam Alignments Laser Beam performance measurements Optics-component Inspection. Different weldings

Signature:

